

IN THE CLAIMS:

1. (Cancelled)

2. (Currently Amended) An omnidirectional visual camera comprising:

a reflecting member including comprising:
a rotating rotationally symmetric surface portion having
comprising a convex surface of a rotating secondary rotationally
symmetric curved surface;

a cylindrical portion having a cylindrical shape walls
surrounding said rotationally symmetric surface portion and
having a rotating center cylindrical axis of rotation
substantially virtually aligning with a rotating an axis of
rotation of said rotationally symmetric rotating surface, and
having a cylindrical inner diameter larger than an outer
diameter of said rotationally symmetric rotating surface portion,

; and

Serial No.: 09/889,888

a connection section for connecting one longitudinal end of said cylindrical portion and with the outer diameter portion of said rotationally symmetric rotating surface portion; ;

said rotationally symmetric rotating surface portion, said cylindrical portion, and said connection section being integrally molded of a transparent material,

the projecting surface of said rotationally symmetric rotating surface portion being processed into comprising a mirror surface; and

a camera having an optical axis substantially aligning with the rotating center-axis rotation of said reflecting member and installed opposite to the convex surface of said rotationally symmetric rotating surface portion,

said camera located for picking up a reflected image reflected from the convex surface of the rotationally symmetric rotating surface portion of said reflecting member.

3.-4. (Cancelled)

Serial No.: 09/889,888

5. (Currently Amended) The omnidirectional visual camera according to Claim 12, wherein one end surface of the cylindrical portion to which the rotationally symmetric rotating surface portion is connected has a smaller diameter than the other end thereof.